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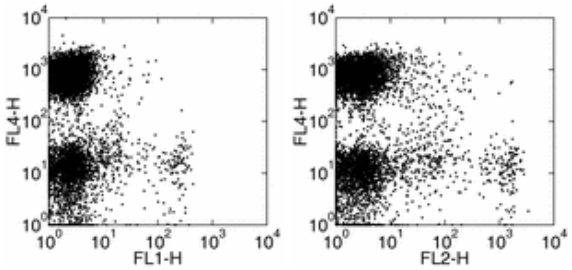
Product Information

Contents: Affinity Purified anti-mouse CD11c (Integrin α_X, p150/90)
Catalog Number: 14-0114
Sizes: 50 ug, 100 ug, 500 ug
Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN_3
Storage Conditions: Store at 4°C. Avoid repeated freeze/thaw cycles.
Clone: N418
Isotype: Armenian Hamster IgG



Two-color surface staining of mouse splenocytes with anti-mouse CD11c (N418), FITC (left) and PE (right), and anti-mouse CD45R/B220 (RA3-6B2) APC. Total viable cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0114	FITC anti-mouse CD11c (Integrin aX, p150/90)	488	518	FC
12-0114	PE anti-mouse CD11c (Integrin aX, p150/90)	488	575	FC
13-0114	Biotin anti-mouse CD11c (Integrin aX, p150/90)	N/A	N/A	FC
14-0114	Affinity Purified anti-mouse CD11c (Integrin aX, p150/90)	N/A	N/A	FC IH/F IP
15-0114	Phycoerythrin-Cy5 (PE-Cy5) anti-mouse CD11c (Integrin aX, p150/90)	488	670	FC
16-0114	Functional Grade* Purified anti-mouse CD11c (Integrin aX, p150/90)	N/A	N/A	FC
17-0114	APC anti-mouse CD11c (Integrin aX, p150/90)	633	660	FC
25-0114	Phycoerythrin-Cy7 (PE-Cy7) anti-mouse CD11c (Integrin aX, p150/90)	488	760	FC
35-0114	Phycoerythrin-Cy5.5 (PE-Cy5.5) anti-mouse CD11c (Integrin aX, p150/90)	488	690	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The N418 monoclonal antibody reacts with mouse CD11c, the integrin α_X. CD11c non-covalently associates with β_2 integrin to form the CD11c/CD18 heterodimer. CD11c is expressed by dendritic cells, a subset of Intestinal Intraepithelial Lymphocytes (IEL) and some activated T cells. CD11c/CD18 binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions. N418 binds to CD11c on splenic dendritic cells in the T-dependent areas of mouse spleen and precipitates a 150, 90 kDa heterodimer.

Usage

For research use only, not for diagnostic or therapeutic use. The N418 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue sections.

Applications Tested

The N418 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0114 FITC anti-mouse CD11c (Integrin aX, p150/90) (clone N418)
Cat. 12-0114 PE anti-mouse CD11c (Integrin aX, p150/90) (clone N418)

Cat. 13-0114 Biotin anti-mouse CD11c (Integrin aX, p150/90) (clone N418)
Cat. 16-0114 Functional Grade Purified anti-mouse CD11c (Integrin aX, p150/90) (clone N418)
Cat. 17-0114 APC anti-mouse CD11c (Integrin aX, p150/90) (clone N418)
Cat. 11-4111 FITC Anti-Armenian Hamster IgG
Cat. 13-4113 Biotin Anti-Armenian Hamster IgG (clone Polyclonal)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 16-4444 Functional Grade Purified Armenian Hamster IgG Isotype Control (clone n/a)

References

Crowley MT, Inaba K, Witmer-Pack MD, Gezelter S, Steinman RM. 1990. Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. J Immunol Methods. 133:55-66.

Metlay JP, Witmer-Pack MD, Agger R, Crowley MT, Lawless D, Steinman RM. 1990. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med. 171:1753-71.

Esche C, Gambotto A, Satoh Y, Gerein V, Robbins PD, Watkins SC, Lotze MT, Shurin MR. 1999. CD154 inhibits tumor-induced apoptosis in dendritic cells and tumor growth. Eur J Immunol. 29:2148-55.

Finkelman FD, Lees A, Birnbaum R, Gause WC, Morris SC. 1996. Dendritic cells can present antigen in vivo in a tolerogenic or immunogenic fashion. J Immunol. 157:1406-14.